

Guidelines for Structural Reviews

September 20, 2007

Plan in Hand Level Review

1. Situation and Layout meets all requirements of the Situation and Layout checklist.
 2. Plans represent acceptable UDOT design practices and presentation.
 3. UDOT CADD Standards are followed.
 4. Structures are constructible using traditional construction methods.
 5. Reviewer professionally and tactfully provides written comments on the standard UDOT Structures Comment Form.
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PS&E Level Review

General:

1. Plan set represents acceptable UDOT design practices and presentation:
 - a. For example:
 - i. Design of substructure and superstructure elements, including the deck, reflect UDOT design requirements for structural shapes and capacities.
 - ii. Loading and design codes meet current UDOT design practice.
 - b. Design and presentation meet all requirements of the UDOT Structural Design Manual (available end of 2007).
2. Plan set clearly communicates intended design.
3. Structures are constructible using traditional construction methods.
4. Consistency of items and quantities between plans; specifications; engineer's estimate; and Measurement and Payment.
5. Geotechnical design parameters used in design are consistent with geotechnical report (if geotechnical report is available during review).
6. Reviewer includes a comment that all QC/QA should be completed in compliance with UDOT Structures QC/QA requirements.
7. Reviewer professionally and tactfully provides written comments on the standard UDOT Structures Comment Form.

Plans:

1. Situation and Layout meets all requirements of the Situation and Layout checklist.
2. All appropriate structural details are included in the plans.
3. UDOT CADD Standards are followed.
4. Dimensions and call-outs are clear and complete.
5. Plan sheet notes use active voice.
6. Information correlates between structural plans and non-structural plans.
7. Impacts from non-structural items of work are addressed.
8. Designs for structures and structural elements are reasonable.

Specifications:

1. Active voice used in specifications.
2. Construction schedule is appropriate.
3. Specifications are clear and understandable.
4. All required structural special provisions are included.

Engineer's Estimate:

1. Quantities and unit costs for structural items are reasonable.

Measurement and Payment

1. Payment information for structural items is acceptable.